


Diksha Gupta

Software Engineer

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I bring around 2 years of hands-on experience as a **Python Developer** | **Python & SQL Expert** | Experience in API Development & **Machine Learning**.

Key Skills: **Python** (including **FASTAPI**, **REST API**, **PySQL**, **Machine Learning**), **Django** API Development & Integration, SQL Database Management (PostgreSQL, **MySQL**, **MSSQL**), **Web API Design**, Experienced in integrating **Machine Learning** models, Automation, Data Analysis and writing unit tests with **pytest**.

Academics

Course/Degree	Institute	Percentage/ CGPA
B.Tech	Abdul Kalam Technical University	8.9 CGPA
Senior Secondary	St.Anthony's Convent Girl's Inter College	67 %
Higher Secondary	St.Anthony's Convent Girl's Inter College	83%

Technical Expertise

Languages & Frameworks	Proficient in Python & Django for backend development, automation , data processing, and Machine Learning . Hands-on experience with FASTAPI for building high-performance, RESTful APIs. Experience with Python libraries such as pandas , NumPy , scikit-learn , matplotlib , and PySQL for data manipulation and modeling. Experienced in HTML5 , CSS3 , JavaScript , Ajax , Bootstrap , jQuery , and basic Angular .
Cloud & Tools	Experienced in using Visual Studio and Visual Studio Code for coding, and project management. Proficient with Swagger for API testing and documentation. Version control managed through Git and GitHub . Working knowledge of AWS services for deploying web applications and ML workloads
Databases	Comfortable using Python with SQL (PySQL) for automation and reporting tasks. Experienced with SQL Server , MySQL , and PostgreSQL . Skilled in writing stored procedures .
Security	Knowledgeable in implementing authentication and authorization using OAuth 2.0 and JWT . Familiar with role-based access control and best practices for securing web applications.
Machine Learning & Data Skills	Developed and deployed Machine Learning models using Python for classification and regression tasks. Integrated ML models into APIs using FASTAPI and exposed them for external consumption.

Work Experience 1.+ years

Software Engineer Trainee | Trianz 09/2023 to Present | Hyderabad, IN

- **Python Development**
 - Proficient in developing scalable backend applications using **Python & Django** and frameworks like **FASTAPI** and **Flask**.
 - Developed responsive and user-friendly web interfaces integrated with backend services.
 - Exposure to continuous integration pipelines, agile ceremonies, and iterative delivery practices.
 - Hands-on experience with **data analysis and manipulation** using **pandas**, **NumPy**, and **PySQL**.
 - Built and deployed **Machine Learning models** for predictive analysis and real-time inference using **scikit-learn** and **joblib**.
 - Used Python Scripting for Automation, Data Pipeline Creation & ETL Tasks.
- **Backend Development:**
 - Designed and developed scalable **RESTful APIs** using **Python (FASTAPI)**, for enterprise-grade applications.
 - Used **SQL Server**, **PostgreSQL**, and **MySQL** for relational data storage, including writing stored procedures, complex queries, and data normalization.

- **Development & Quality:**
- Maintained 90%+ unit test coverage in modular **Python** code following best practices and implemented unit testing using **pytest** for high code reliability.
- Ensured code quality through **linting**, **error handling**, and **continuous integration** for robust and maintainable backend services.

Courses & Certifications

Python	Advanced Python Programming and Development by Great Learning- Covering core concepts, OOP principles, and practical implementation & PySpark Training Certification
Data Structures	Data Structures and Algorithms Specialization by Great Learning- Comprehensive course on DSA fundamentals and problem-solving
Machine Learning	Technical certification from Great Learning on Machine Learning.

Projects

FareBot

Developed an intelligent chatbot using **Python, Pandas, FASTAPI** for analyzing and responding to queries related to flight ticket data, such as pricing trends, route comparisons, and booking recommendations. Used Pandas for data processing and analysis, and Matplotlib/Seaborn for visualizing price patterns and trends. Exposed the chatbot via a FASTAPI backend for integration into web or mobile interfaces

Forgery Detection System

Created Image Forgery Detection System using Python ,Machine learning and AI to identify tampered or Forged Images. The system uses advanced AI algorithms to analyze and detect any alterations or inconsistencies in images, ensuring the integrity and authenticity of visual content.

MediShare

Created a medicine donation system using C#, .NET to facilitate the administration of donated medications. To ensure effective donation and distribution procedures, the system enables users to dispense medications as necessary, log the number of medications supplied, and update medicine names upon donationPDF.

Positions of Responsibility

Mentor	Guided developers in .Net best practices and LLM integrations.
Documentation Lead	Maintained technical documentation and API specifications.
College Tech Club	Core member of Programming Club at AKTU University, organizing coding competitions.